

ABSTRACT OF THE DISCLOSURE

An automatic charging system of a robot cleaner includes: a rotating plate installed at a robot cleaner; an infrared ray receiving unit mounted at the rotating
5 plate and receiving an infrared signal generated from a power supply unit while being rotated; a microcomputer for moving the robot cleaner to the power supply unit on the basis of the received infrared signal; and an ultrasonic generator for generating a stop signal when the robot cleaner nears to the power supply unit. A robot cleaner can be accurately and quickly moved to a power supply unit for a
10 rapid charging operation, and a cost for implementing the robot cleaner can be reduced.